06-13-06

PATENT
Attorney Docket No. **AMBER-06797**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Kenneth J. Rothschild *et al.*
Serial No.: 10/049,332 Group No.: 1636
Filed: 02/11/02 Examiner: Katcheves, K.
Entitled: **Methods For The Detection, Analysis And Isolation Of Nascent Proteins**

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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Dated: June 12, 2006 By: _____
Christopher J. Collins

Sir or Madam:

Enclosed please find an Information Disclosure Statement and Form PTO-1449, including copies of the references contained thereon, for filing in the U.S. Patent and Trademark Office.

A check for $180.00 is also enclosed pursuant to 37 C.F.R. § 1.17(p) for filing this Information Disclosure Statement after three months as set forth in 37 C.F.R. § 1.97(c).

The Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. **08-1290**. **An originally executed duplicate of this transmittal is enclosed for this purpose.**

Dated: June 12, 2006

_____
Peter G. Carroll
Registration No. 32,837

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The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

The following printed publications are referred to in the body of the specification:

- U.S. Pat. No. 4,683,195 to Mullis *et al.*;
- U.S. Pat. No. 4,774,339 to Haugland *et al.*;
- U.S. Pat. No. 5,069,769 to Fujimiya *et al.*;
- U.S. Pat. No. 5,091,328 to Miller;
- U.S. Pat. No. 5,137,609 to Manian *et al.*;
- U.S. Pat. No. 5,187,288 to Kang *et al.*;
- U.S. Pat. No. 5,190,632 to Fujimiya *et al.*;
- U.S. Pat. No. 5,248,782 to Haugland *et al.*;
- U.S. Pat. No. 5,274,113 to Kang *et al.*;
- U.S. Pat. No. 5,433,896 to Kang *et al.*;
- U.S. Pat. No. 5,451,663 to Kang *et al.*;
- U.S. Pat. No. 5,643,722 to Rothschild *et al.*;

- U.S. Pat. No. 5,654,150 to King *et al.*[1];
- U.S. Pat. No. 5,783,397 to Hughes *et al.*;
- PCT WO90/05785 to Schultz;
- Allen *et al.*, *Gel Electrophoresis and Isoelectric Focusing of Proteins*, Walter de Gruyter, New York 1984, pp.17-62;
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- Current Protocol in Molecular Biology, "Synthesizing Proteins In Vitro by Transcription and Translationof Cloned Genes," (F.M. Ausubel *et al.* editors, Wiley Interscience, 1993), pp.10.76-10.77;
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[1] This Patent was incorrectly cited as U.S. Patent 565,451 in the specification as filed. The correct patent number is U.S. Patent 5,654,150 issued to King *et al.*.

- Hemmila, I.A., Chemical Analysis "Applications of Fluorescence in Immunoassays", (Wiley&Sons 1991) pp.138-159;
- Hudson, "Methodological Implications of Simultaneous Solid-Phases Peptide Synthesis. 1. Comparison of Different Coupling Procedures," *J. Org. Chem.* 53:617-624 (1988);
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- Kopp *et al.*, "Chemical Amplification: Continuous Flow PCR on a Chip," *Science* 280:1046 (1998);
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- Marmur and Lane, "Strand Separation and Specific Recombination in Deoxyribonucleic Acids: Biological Studies," *Proc. Natl. Acad. Sci. USA* 46:453-461 (1960);
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- Olejnik, *et al.*,"Photocleavable biotin derivatives: A versatile approach for the isolation of biomolecules," *Proc. Nat.l Acad. Sci. U S A*, 92: 7590-4 (1995);
- Olejnik, *et al.*,"Photocleavable Affinity Tags for Isolation and Detection of Biomolecules," *Methods Enzymol.*, 291: 135-54 (1998);
- Patchornik, *et al.*,"Photosensitive Protecting Groups," *J. Am. Chem. Soc.* 92:6333-35 (1970);
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- Seong and RajBhandary, "*Escherichia coli* formylmethione tRNA: Mutations in ^{GGG} sequence conserved in anticodon stem of initiator tRNAs affect initiation of protein synthesis and conformation of anticodon loop," *Proc. Natl. Acad. Sci. USA* 84:334-338 (1987);
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- Varshney U. and RajBhandary UL, "Initiation of protein synthesis from a termination codon," Proc Natl Acad Sci U S A 87(4):1586-90 (1990);
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- Vecesey-Semjen *et al.*, "The Staphylococcal α-Toxin Pore Has a Flexible Conformation," *Biochemistry* 38:4296-4302 (1999);
- Vos de Waal *et al.* (1977)[2];
- Walker, B. *et al.*,"Functional Expression of the α-Hemolysin of Staphylococcus aureus in Intact Escherichia coli and in Cell Lysates," *J. Biol. Chem.* 267:10902-10909 (1992);
- Wories *et al.*, "A novel water-soluble fluorescent probe: Synthesis, luminescence and biological properties of the sodium salt of the 4-sulfonato-3,3', 5'5-tetramethyl-2,2'-pyrromethen-1,1'-BF.sub.2 complex," *Recl. Trav. Chim. PAYSBAS* 104:288 (1985); and
- Yao S *et al.*, "SDS capillary gel electrophoresis of proteins in microfabricated channels," *PNAS* 96:5372-5377 (1999).

The following publications have been cited in prior related applications by the examiner which may be material to the examination of this application:

- U.S. Patent No. 5,614,386 to Metzker *et al.*.
- wysiwyg://63/http:/www.probes.com/handbook/figures/0103.html (Molecular Probes, Inc., Eugene, OR internet site)

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[2] We have been unable to obtain this reference, if the examiner request a copy we will seek to obtain it.

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: June 12, 2006

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FORM PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No.: AMBER-06797	Serial No.: 10/049,332
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary)		Applicant: Kenneth J. Rothschild *et al.*	
(37 CFR § 1.98(b))		Filing Date: 06/21/02	Group Art Unit: 1645

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
	1	4,683,195	7/28/87	Mullis *et al.*	435	6	2/07/86
	2	4,774,339	9/27/88	Haugland *et al.*	548	405	8/10/87
	3	5,069,769	12/03/91	Fujimiya *et al.*	204	182.8	6/06/90
	4	5,091,328	2/25/92	Miller	437	52	11/21/89
	5	5,137,609	8/11/92	Manian *et al.*	204	180.1	1/31/92
	6	5,187,288	2/16/93	Kang *et al.*	548	110	5/22/91
	7	5,190,632	3/02/93	Fujimiya *et al.*	204	299 R	3/20/92
	8	5,248,782	9/28/93	Haugland *et al.*	548	110	12/18/90
	9	5,274,113	12/28/93	Kang *et al.*	548	405	11/01/91
	10	5,433,896	7/18/95	Kang *et al.*	252	700	5/20/94
	11	5,451,663	9/19/95	Kang *et al.*	530	367	4/08/93
	12	5,643,722	7/01/97	Rothschild *et al.*	435	6	5/11/94
	13	5,783,397	7/21/98	Hughes *et al.*	435	7.1	6/12/96
	14	5,654,150	9/05/97	King *et al.*	435	6	6/07/95
	15	5,614,386	3/25/97	Metzker *et al.*	435	91.1	6/23/95

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
	16	WO90/05785	5/31/90	PCT			x	

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

	17	Allen *et al.*, *Gel Electrophoresis and Isoelectric Focusing of Proteins*, Walter de Gruyter, New York 1984, pp. 17-62
	18	*Antibodies: A Laboratory Manual* (E. Harlow and D. Lane, editors, Cold Spring Harbor Laboratory Press, 1988, pp. 53,72-73)
	19	Bain *et al.*, "Site-Specific Incorporation of Nonnatural Residues during In Vitro Protein Biosynthesis with Semisynthetic Aminoacyl-tRNAs," *Biochemistry* 30:5411-21 (1991)
	20	Bruce and Uhlenbeck, "Specific Interaction of Anticodon Loop Residues with Yeast Phenylalanyl-tRNA Synthetase," *Biochemistry* 21:3921-3926 (1982)
	21	Current Protocol in Molecular Biology, "Synthesizing Proteins In Vitro by Transcription and Translationof Cloned Genes," (F.M. Ausubel *et al.* editors, Wiley Interscience, 1993), pp.10.76-10.77
	22	Da Poian, A. T., *et al.*, "Kinetics of intracellular viral disassembly and processing probed by Bodipy fluorescence dequenching," *J Virol Methods* 70(1):45-58 (1998)
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	26	Happ *et al.*, "New Approach to the Synthesis of 2'(3')-*O*-Aminoacyl Oligoribonucleotides," *J. Org. Chem.* 52:5387-91 (1987)
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	28	Heckler *et al.*, "T4 RNA Ligase Mediated Preparation of Novel "Chemically Misacylated" tRNA ^{Phe}s," *Biochemistry* 23:1468-73 (1984)

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	37	Kudlicki, W.*et al.*, "Chaperone-dependent Folding and Activation of Ribosome-bound Nascent Rhodanese," *J Mol Biol* 244(3):319-31 (1994)
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	39	Marmur and Lane, "Strand Separation and Specific Recombination in Deoxyribonucleic Acids: Biological Studies," *Proc. Natl. Acad. Sci. USA* 46:453-461 (1960)
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	61	Van Lintel *et al.*, "A Piezoelectric Micropump Based on Micromachining of Silicon," *Sensors and Actuators* 15:153-167 (1988)
	62	Varshney *et al.*, "Initiation of protein synthesis from a termination codon," *Proc Natl Acad Sci U S A* 87(4):1586-90 (1990)
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	64	Vecesey-Semjen *et al.*, "The Staphylococcal α-Toxin Pore Has a Flexible Conformation," *Biochemistry* 38 4296-4302 (1999)
	65	Walker, B. *et al.*,"Functional Expression of the α-Hemolysin of Staphylococcus aureus in Intact Escherichia coli and in Cell Lysates," *J. Biol. Chem.* 267:10902-10909 (1992)
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